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M/EB 394/64
5 August 1964
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MEMORANDUM FOR: Chief, Ballistic Missile and Space Division, OSI

ATTENTION:

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THROUGH: Chief, Requirements Branch, Reconnaissance Group, CGS

FROM: Chief, CIA/PID (NPIC)

SUBJECT: Photo Analysis of Khutor FLIM FLAM Tracking Station, USSR

REFERENCES: (a) Requirement C-SI-3-80,659
(b) CIA/PID Project C 1397-63
(c) NPIC/R69/64

1. This memorandum is in partial response to your requirement dated 4 October 1963 requesting a detailed photo analysis of each near space tracking site from which FLIM FLAM data is being transmitted. This memorandum covers the space tracking site near Khutor, USSR.

2. The Khutor Near Space Tracking Site is located at 53-09N 158-23E 3.2 nautical miles south of Khutor and 12 nautical miles west-northwest of Petropavlovsk. It is situated in a wooded valley on the Avancha River. The Khutor site is located on the main road between Yelizovo and Nikolayevka. The Yelizovo/Petropavlovsk Airfield is approximately five nautical miles northeast of the site.

The Khutor site, on the latest available coverage of March 1964 is portrayed on the attached line drawing. It consists of a Krug; an interferometer; two communications stations (A and B); two secured operations areas (C and D), each of which contain a pair of buildings (Items 1 through 4) composing two new tracking facilities; a main support area (E); and two areas of unidentified function. One of these areas is indicated on the attached drawing by Items 5 and 6. The other area is 1.5 nautical miles northwest of Communication Station B and off the area covered by the drawing.

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A search was made within a 25 nautical mile radius for communication facilities. In addition to the stations at the site proper, a station consisting of four pair of double colinear, co-phased HF antennas is located at 53-12N 158-24E. A station consisting of a horizontal-wire antenna is located one nautical mile to the northwest of this station.

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The Khutor site was first observed [redacted] at which time it consisted of the Main Support Area E, the Krug, the interferometer, the Communication Station A, and Operation Area C without the near space tracking buildings (Items 1 and 2). The existence of the interferometer suggests that at this time the site was probably associated with near space tracking.

Khutor was next covered on interpretable photography of April 1962 [redacted]. The Krug, interferometer and Communication Station A remained unchanged. Additions to the site consisted of Communication Station B, Operations Area D; additional buildings in the Main Support Area E and the construction of the associated near space tracking buildings (Items 1 and 2) in Operations Area C. Between April 1962 and June 1963 [redacted], the two associated near space tracking buildings (Items 3 and 4) were constructed in Operations Area D.

Although the Khutor site was covered again in July 1963 [redacted] February 1964 [redacted] and March 1964 [redacted], no significant changes could be noted. For the first time, however, more information could be obtained on the space tracking buildings (Items 3 and 4) within Operations Area D.

The following are details of each of the above mentioned areas:

Krug - Outer circle 1011-foot diameter, antennas reflector screen [redacted]

Interferometer - Circular fence or road 1018-foot diameter. The antennas cannot be identified, however, it is doubtful that they could be identified unless covered by radomes.

Communication Station A - The quality of photography precludes the identification of masts; however, clearings indicate the existence of at least eleven rhombic antennas. Although nothing definite can be determined as to whether this is a transmitter or receiving station, the possibility of antennas spaced for diversity reception makes this a suspect receiving station. Due to additional time requirement for obtaining antenna orientation azimuths data, this communication station will be forwarded at a later date.

Communication Station B - The quality of photography precludes the identification of masts; however, clearings indicate the existence of approximately twelve antennas probably of the horizontal dipole and V-antenna design. Due to additional time requirement for obtaining critical orientation azimuths, data on this communication station will be forwarded at a later date.

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Secured Operations Area C - This area was present in 1959, however, Buildings 1 and 2, which are believed to be associated with the near space tracking station, did not appear until April 1962. Buildings (Items 1 and 2) are approximately 390 feet apart. Building 1 is approximately 110 by 90 feet and has a 55-foot dome on the roof. Building 2 is approximately 90 by 90 feet and has a probable antenna on its roof. Other buildings of various sizes are present in Area C, but their function cannot be determined.

Secured Operations Area D - This area appeared in April 1962 but due to the poor quality of photography, no buildings could be identified. In June 1963 two buildings were identified as the possible near space tracking facilities (Items 3 and 4). In March 1964, these buildings appeared to be two-story, approximately 120 by 120 feet in size, and approximately 465 feet apart. The buildings appear canted and an unidentified structure appears on both roofs. Two small possible antennas are situated 110 feet from each building.

Main Support Area E - This area is composed of approximately 40-50 buildings. It was present in 1959 and has expanded in size since then. It appears to be a housing and support area for the Khutor site.

Unidentified Area (Items 5 and 6) - There are two buildings (Items 5 and 6) located approximately 900 feet south-southwest of the center of the interferometer. Item 5 is approximately 65 by 65 feet, Item 6 is approximately 50 by 30 feet. The buildings are spaced 425 feet apart. No antennas are visible. These buildings were first observed in June 1963, but could not be negated. The function of these buildings is undetermined.

Unidentified Area (not shown on drawing) - There is an unidentified area approximately 1.5 nautical miles northwest of Communications Station B consisting of a group of six buildings of various sizes. A road connects this area to the main road through the installation.

MAP REFERENCES: ONC E-10 1:1,000,000
US Air Target Chart 0194-17H 1:200,000

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4. This project is not considered to be complete.

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Enclosures:

- 1 - One (1) line drawing
(CIA/PID/MEB-P-672/64)
- 2 - One (1) enlargement
(CIA/PID/MEB-P-673/64)

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